

FIG. 1

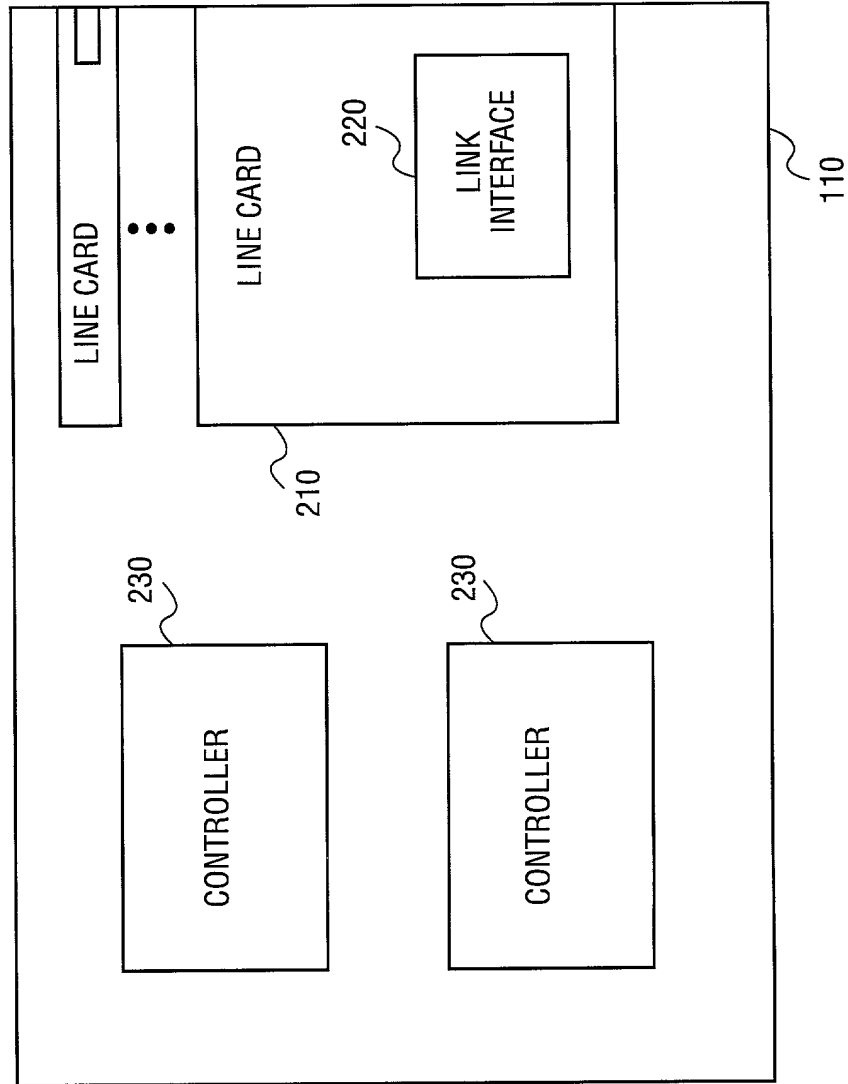
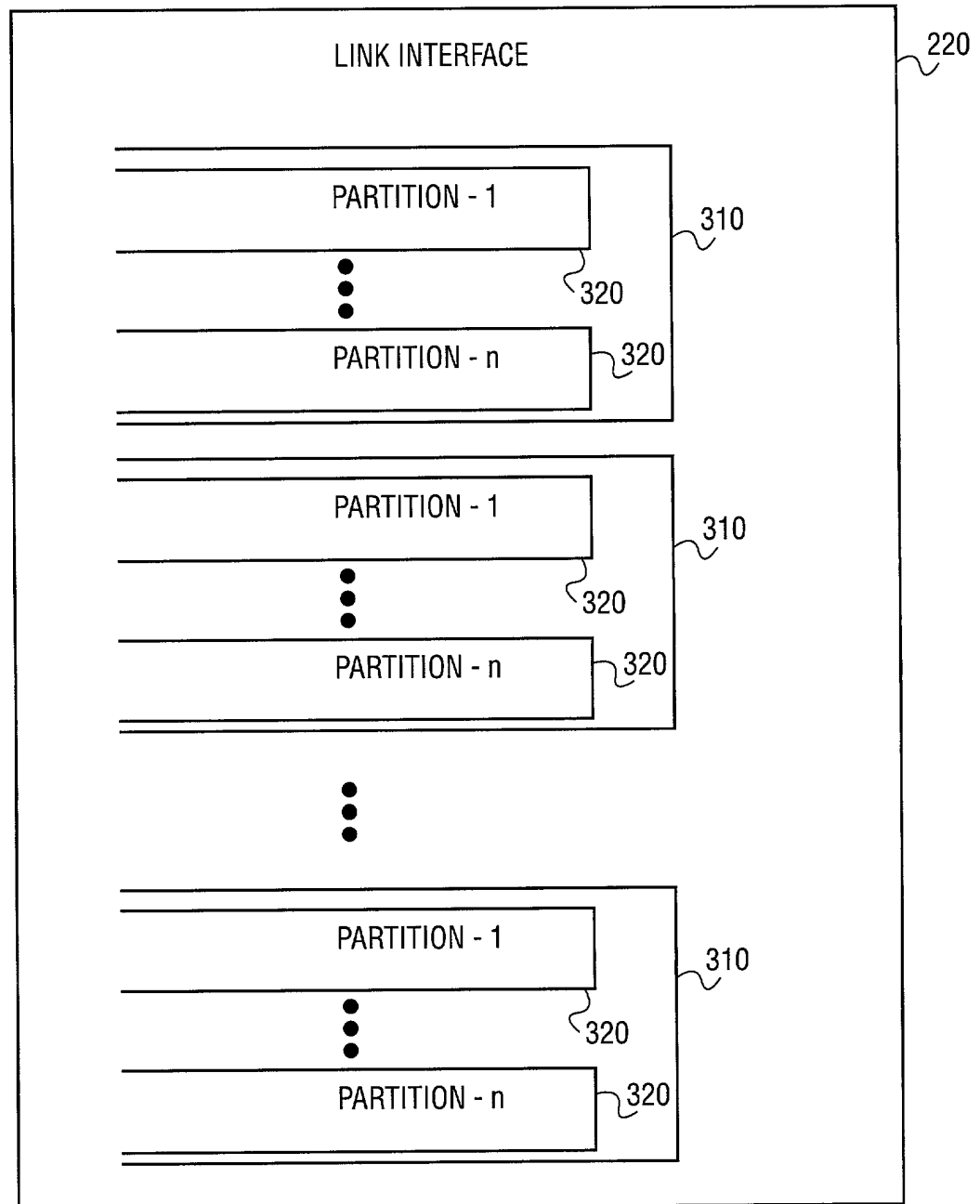
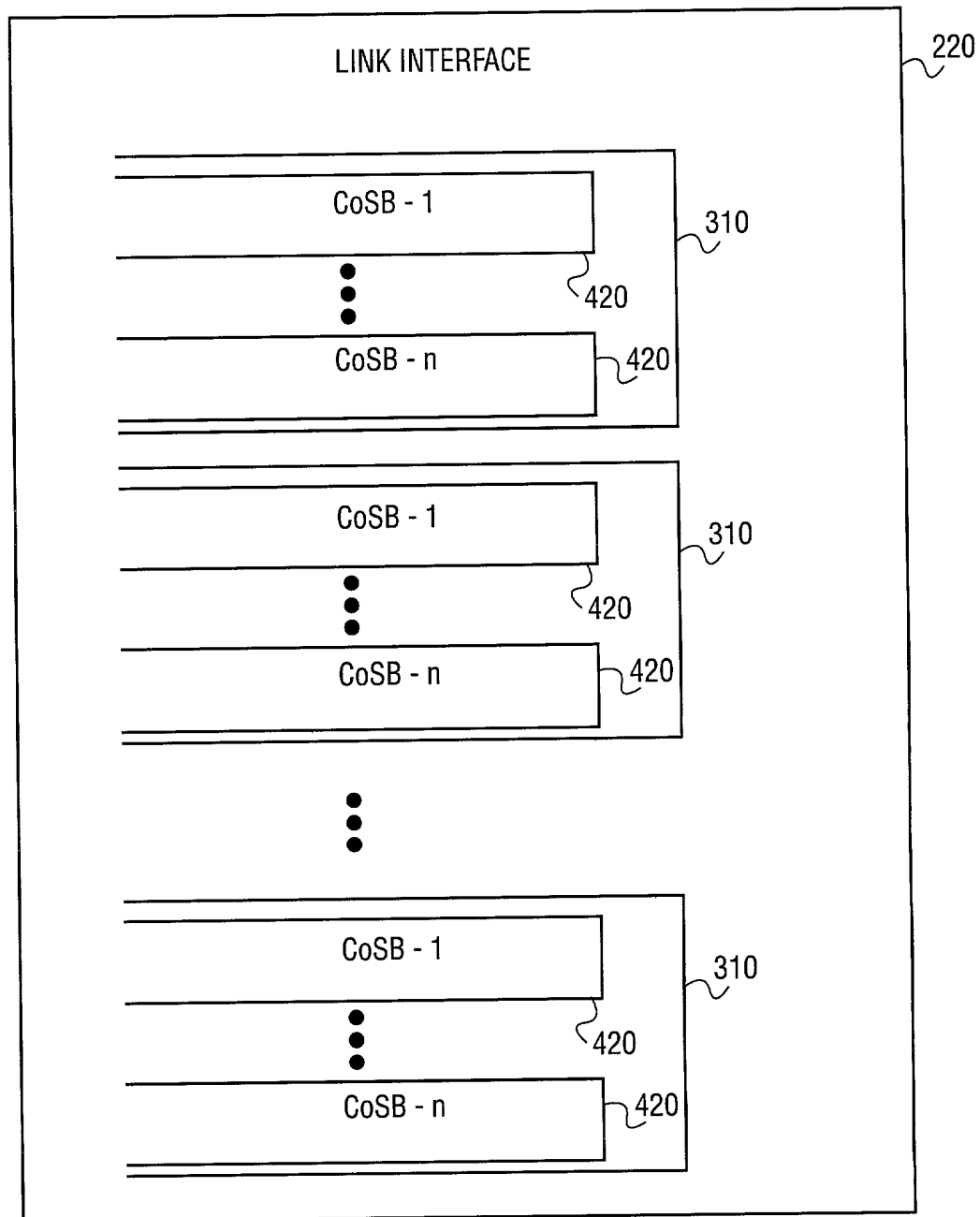


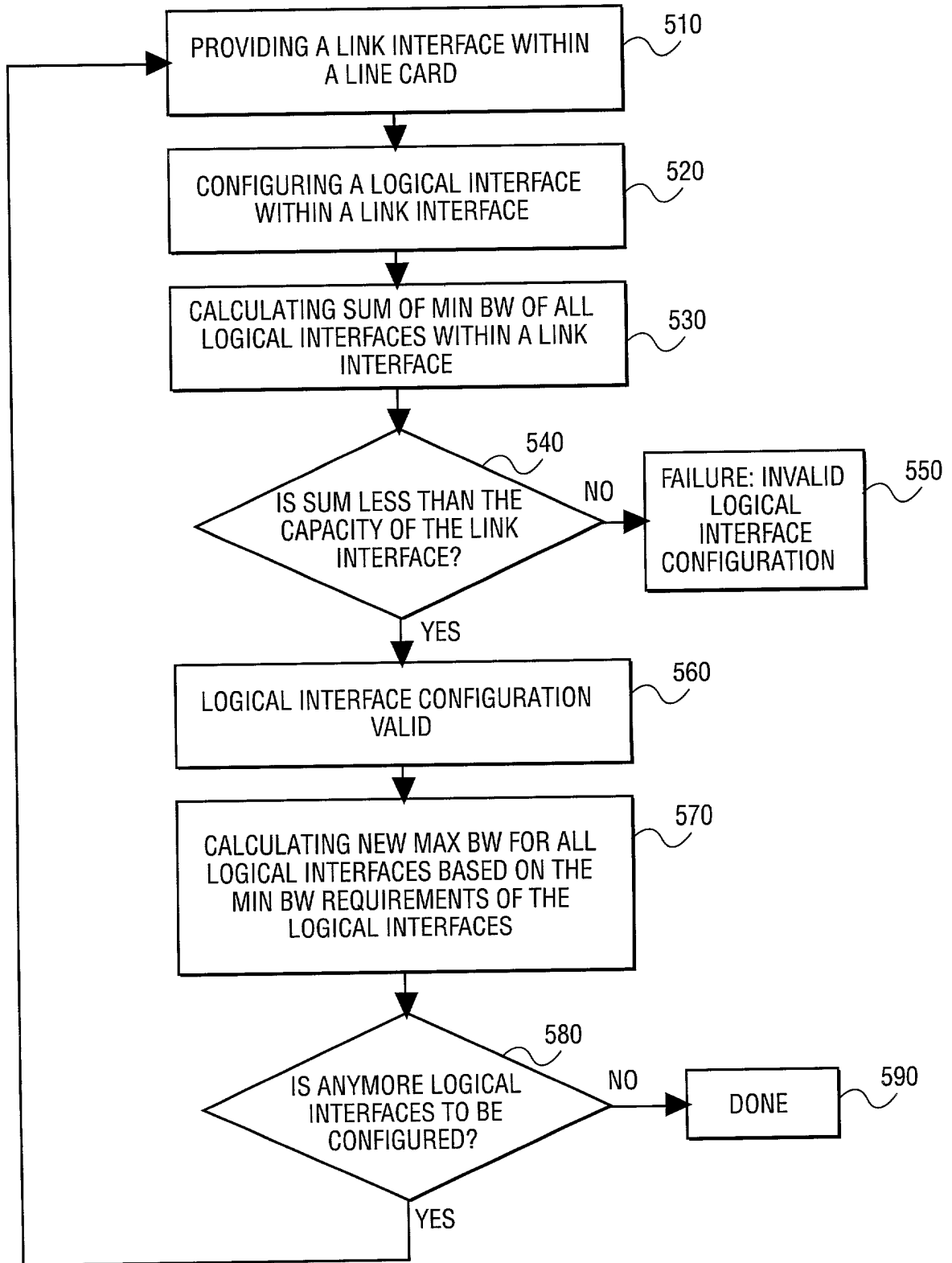
FIG. 2



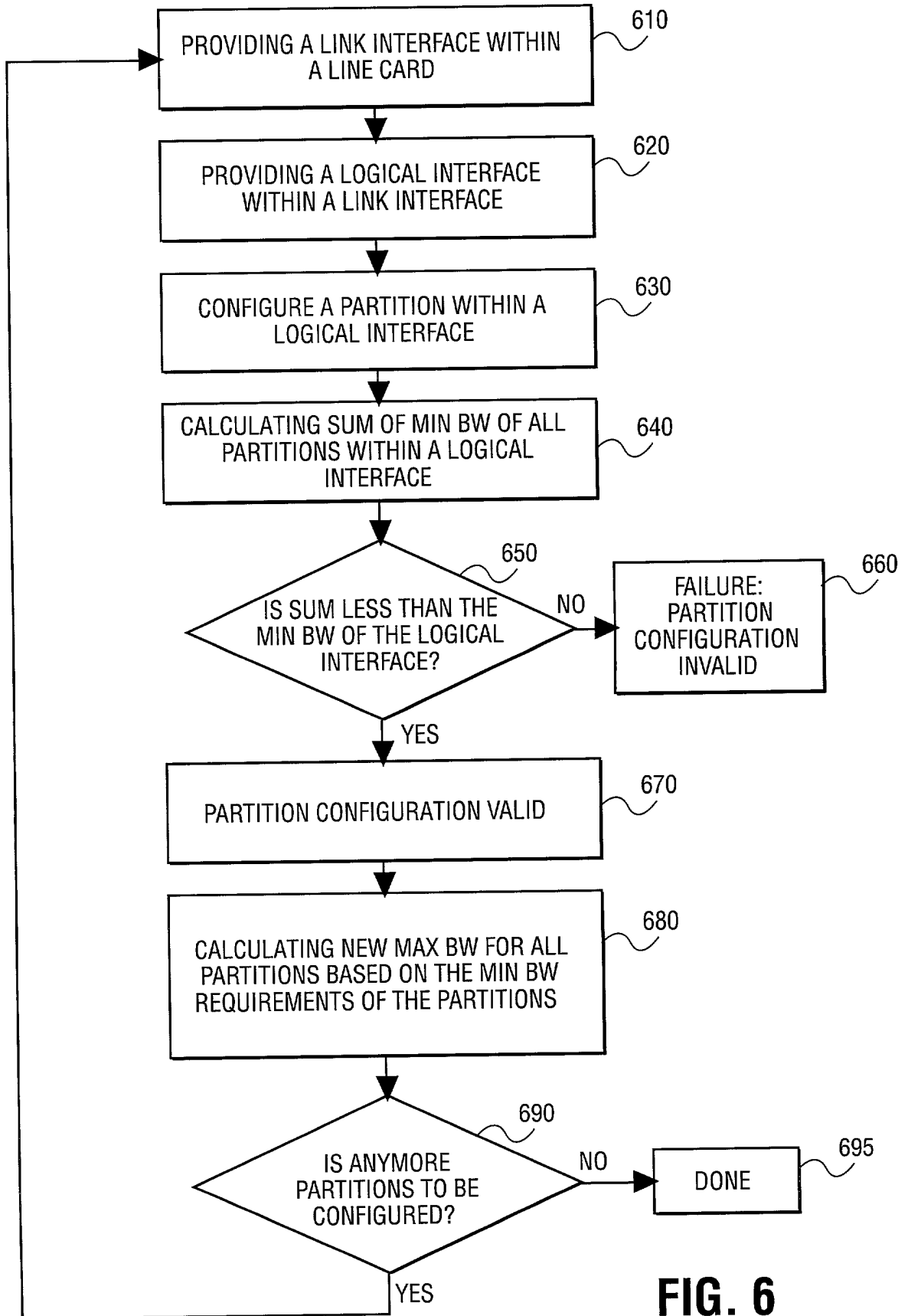
**FIG. 3**



**FIG. 4**



**FIG. 5**



**FIG. 6**

**FIG. 7**

**FIG. 8**



FIG. 9

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graph TD
    1010[RECEIVING REQUEST TO ADD/MODIFY CONNECTION] --> 1020[CALCULATING NEW CURRENT VALUE OF CoS REQUIREMENTS]
    1020 --> 1025{IS NEW CURRENT VALUE LESS THAN A MAXIMUM VALUE?}
    1025 -- NO --> A((A))
    1025 -- YES --> 1030[CALCULATING NEW PARTITION BANDWIDTH]
    1030 --> 1035{IS NEW PARTITION BANDWIDTH LESS THAN A MAXIMUM VALUE?}
    1035 -- NO --> A
    1035 -- YES --> 1040[CALCULATING NEW BUFFER BANDWIDTH]
    1040 --> 1045{IS NEW BUFFER BANDWIDTH LESS THAN A MAXIMUM VALUE?}
    1045 -- NO --> A
    1045 -- YES --> 1050[CALCULATING NEW CURRENT USAGE VALUE OF LOGICAL INTERFACE]
    1050 --> C((C))

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**FIG 1**

**FIG. 10A**

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graph TD
    A((A)) --> B{1060  
IS NEW VALUE FOR CURRENT  
USAGE OF THE LOGICAL  
INTERFACE IN WHICH THE  
CONNECTION IS ADDED IS LESS  
THAN A MAXIMUM VALUE?}
    B -- NO --> A
    B -- YES --> C[1065  
CALCULATE THE SUM OF THE CURRENT USAGE  
OF ALL LOGICAL INTERFACES EXCEPT THE  
LOGICAL INTERFACE ON WHICH THE  
CONNECTION IS ADDED WITH THE NEW VALUE  
OF CURRENT USAGE OF THE LOGICAL  
INTERFACE IN WHICH THE CONNECTION IS  
ADDED]
    C --> D{1070  
IS THE NEW USAGE VALUE  
LESS THAN THE LINK  
CAPACITY?}
    D -- NO --> A
    D -- YES --> E[1075  
REQUEST TO ADD/MODIFY A  
CONNECTION ACCEPTED]
    E --> F[1080  
REQUEST TO ADD/MODIFY A  
CONNECTION REJECTED]
    F --> A
    F --> G[1090  
DONE]

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